

1. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-7x + 6}{8} - \frac{5x - 8}{2} = \frac{-5x - 4}{7}$$

- A. $x \in [0.1, 1.2]$
 - B. $x \in [1.7, 3.1]$
 - C. $x \in [-2.6, -0.4]$
 - D. $x \in [6.2, 8]$
 - E. There are no real solutions.
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2. Solve the equation below. Then, choose the interval that contains the solution.

$$-19(14x + 6) = -3(4x - 16)$$

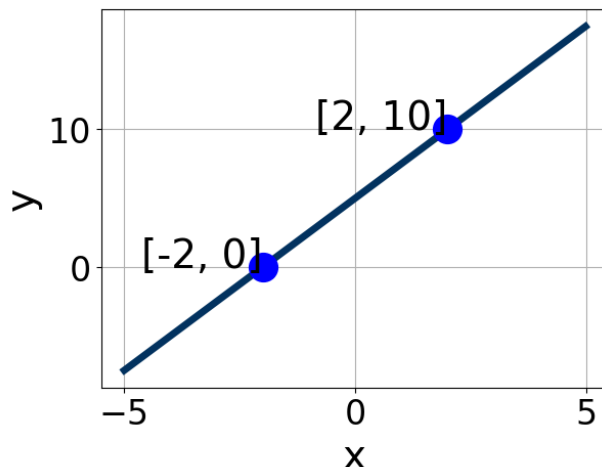
- A. $x \in [-0.77, -0.57]$
 - B. $x \in [-0.34, -0.25]$
 - C. $x \in [-0.25, -0.17]$
 - D. $x \in [0.18, 0.4]$
 - E. There are no real solutions.
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3. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b .

$$(2, 8) \text{ and } (4, -2)$$

- A. $m \in [-12, -4]$ $b \in [4, 10]$
- B. $m \in [-12, -4]$ $b \in [-6, -2]$
- C. $m \in [-12, -4]$ $b \in [-20, -14]$
- D. $m \in [4, 6]$ $b \in [-26, -20]$
- E. $m \in [-12, -4]$ $b \in [17, 19]$

4. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [-2.5, -1.5]$, $B \in [0.1, 1.11]$, and $C \in [4, 7]$
B. $A \in [-6, -3]$, $B \in [1.49, 3.66]$, and $C \in [9, 11]$
C. $A \in [-2.5, -1.5]$, $B \in [-1.41, -0.53]$, and $C \in [-7, -4]$
D. $A \in [4, 8]$, $B \in [1.49, 3.66]$, and $C \in [9, 11]$
E. $A \in [4, 8]$, $B \in [-3.93, -1.4]$, and $C \in [-12, -7]$

5. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b .

Parallel to $7x - 8y = 9$ and passing through the point $(7, 8)$.

- A. $m \in [0.77, 0.95]$ $b \in [0.05, 1.77]$
B. $m \in [0.77, 0.95]$ $b \in [-2.58, -0.48]$
C. $m \in [0.98, 1.67]$ $b \in [1.55, 2.01]$
D. $m \in [-1.19, -0.36]$ $b \in [13.58, 15.14]$
E. $m \in [0.77, 0.95]$ $b \in [1.55, 2.01]$

6. Solve the equation below. Then, choose the interval that contains the solution.

$$-13(17x - 2) = -12(-9x - 4)$$

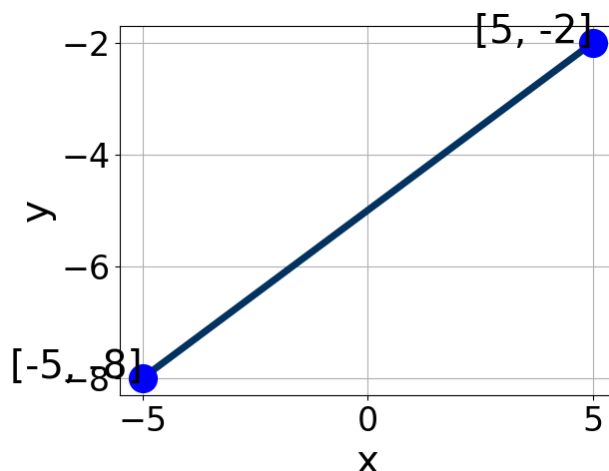
- A. $x \in [0.65, 0.74]$
 - B. $x \in [-0.28, -0.21]$
 - C. $x \in [-0.18, 0.14]$
 - D. $x \in [0.03, 0.28]$
 - E. There are no real solutions.
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7. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b .

Parallel to $5x - 4y = 4$ and passing through the point $(-8, 5)$.

- A. $m \in [1.14, 1.98]$ $b \in [14, 18]$
 - B. $m \in [-2, -0.92]$ $b \in [-9, -1]$
 - C. $m \in [1.14, 1.98]$ $b \in [-16, -12]$
 - D. $m \in [0.37, 0.85]$ $b \in [14, 18]$
 - E. $m \in [1.14, 1.98]$ $b \in [10, 14]$
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8. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [-7.6, -1.2]$, $B \in [1.2, 5.1]$, and $C \in [-29, -23]$
- B. $A \in [-1.1, 1.2]$, $B \in [-2, -0.4]$, and $C \in [4, 6]$
- C. $A \in [2.1, 5.6]$, $B \in [-5.8, -2.8]$, and $C \in [19, 34]$
- D. $A \in [2.1, 5.6]$, $B \in [1.2, 5.1]$, and $C \in [-29, -23]$
- E. $A \in [-1.1, 1.2]$, $B \in [-0.7, 1.5]$, and $C \in [-10, 2]$

9. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-8x + 8}{3} - \frac{-8x - 8}{5} = \frac{-8x + 7}{4}$$

- A. $x \in [-0.6, 0.1]$
- B. $x \in [-10.2, -7.4]$
- C. $x \in [-3.2, -2.2]$
- D. $x \in [0.5, 1.1]$
- E. There are no real solutions.

10. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b .

$(-3, 10)$ and $(-7, -9)$

- A. $m \in [-0.25, 6.75]$ $b \in [10, 21]$
 - B. $m \in [-0.25, 6.75]$ $b \in [-31.25, -22.25]$
 - C. $m \in [-0.25, 6.75]$ $b \in [-7, 2]$
 - D. $m \in [-0.25, 6.75]$ $b \in [23.25, 25.25]$
 - E. $m \in [-4.75, 1.25]$ $b \in [-42.25, -40.25]$
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